

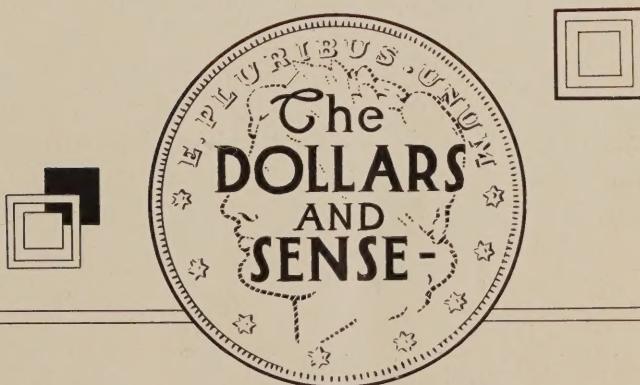
THORNE PATENTED STORE FRONT SYSTEM



COPPER STORE FRONTS

THORNE PATENTED STORE FRONT SYSTEM

THORNE HOLD-FAST STORE FRONTS
INCREASE PROPERTY VALUATIONS, INCOMES
OF TENANTS AND THE SIGHTLINESS OF PRO-
PERTY OUT OF ALL PROPORTION TO THEIR
MODERATE COST. THAT'S WHY WE SAY



COPPER STORE FRONTS



THE THORNE HOLD-FAST PRINCIPLE

I have continuously stood for the "Inside setting" principle for copper store fronts because, according to my own twenty-five years' experience in the setting and laying out of plate glass for all branches of store front construction, the **inside setting** has proved the more solid, has lasted longer and has produced the more sightly window.

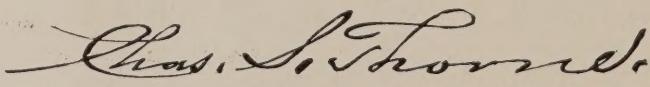
I feel that I am safe in saying that 90% of the copper store fronts which prove unsatisfactory, are those with the bolts and nut fastenings on the outside. Wind, weather and small boys often loosen these outside fastenings, thus weakening the construction — in some instances, so much so that entire fronts blow out.

In the perfecting of each part that goes to make up the Thorne Hold-Fast Store Front System, we have avoided these usual difficulties by producing a heavier solid copper construction (as for instance page 8) which fastens on the inside base of the window, thus becoming an actual part of the building, instead of fastening lighter weight metal from the outside.

The fastening of all Thorne Hold-Fast parts on the inside, results in a perfectly smooth and attractive outside finish — a copper setting that enhances the appearance of the property — that offers the greatest possibilities for effective window displays.

I recommend that when you decide to build your store front, you first consult an architect, — and when he recommends the THORNE SYSTEM, make sure that THORNE construction is not only specified, but used.

Yours very truly,



President.

THORNE HOLD-FAST

—THORNE
PATENTED STORE FRONT
SYSTEM

METAL BAR CO



SUMMERFIELD BUILDING, PROVIDENCE, R. I.

Albert Harkness, Architect ~~and Copper~~

C. E. 1911. S. N. 107

7,000 lineal feet THORNE SYSTEM Heavy Copper Bars and 72 Pivoted Sash installed in this building
107 Westminster St., Providence, R. I.

THORNE HOLD-FAST

—THORNE
PATENTED STORE FRONT
SYSTEM

METAL BAR CO

THORNE STORE FRONT CONSTRUCTION IS EQUALLY DESIRABLE
FOR THE LARGE OR SMALL FRONT



THORNE HOLD-FAST CONSTRUCTION

Is not only effective for the large store front — it accomplishes just as much for the retailer whose frontage permits the use of but one or two modest displays.

The above illustration showing the Eagle Clothing Company is a good example of effective results for a retailer whose total frontage is but 17 feet. These windows command an inspection of their attractively displayed goods. The receding entry way invites you right into the store to inspect the goods.



IS THE STORE FRONT YOU BUILD AN ADVERTISING FAILURE OR A MERCHANDISING SUCCESS

During these days of keen competition, the property owner cannot expect to get more successful tenants when he rents ground floors with store fronts that are advertising failures. This is the day and age of advertising. The right kind of advertising pays. The window display is the most important advertising medium at the disposal of the local merchant. There is much competition in window display mediums in every city. Your building, then, to command its proper income, must have display windows that are equal to or better than the others in its vicinity.

Store fronts that are built according to Thorne Patent System possess unusual attention value. Thorne construction does away with large and unsightly wooden posts and transom bars and provides a complete metal setting for the glass, —simple, strong, durable.

Thorne Store Fronts avoid constant repaintings and the old time renewal of wooden parts.

Thorne Hold-Fast Copper Fronts cover the smallest possible portion of the glass surface consistent with strength and durability; are subject to the lowest rate of insurance on the plate glass, yet their result is the "all glass" effect.

Move the store of your customer from the small town to the city by installing the Thorne Patented Store Front that stops **every** person who passes, instead of the **one out of one hundred**.

THE THORNE HOLD-FAST METAL BAR CO., TROY, N. Y.



Place at angle desired, tighten
Thumb Nuts until in a
vertical position,



then—insert glass, apply the in-
side stop, fasten nuts,



and there you are—exact fit, at-
tractive and extra strong.

THORNE ADJUSTABLE CORNER BAR

The newest store front innovation is the Thorne Patent **Adjustable** Corner Bar—the one bar that is adjustable to any and all angles from 70 to 170 degrees. The metal is heavy—a reinforced solid copper bar that holds fast to the glass, cannot move from the set angle and the reinforcement extends the entire length of the bar.

You know the inconveniences and delays you have had in the past when you ordered the wrong angle corner bars—or forgot to specify the angle when ordering. You know what these disappointments have meant to your customers. Think how much trouble you save when you know that the **one** movable face bar you order fits any and every store front angle.

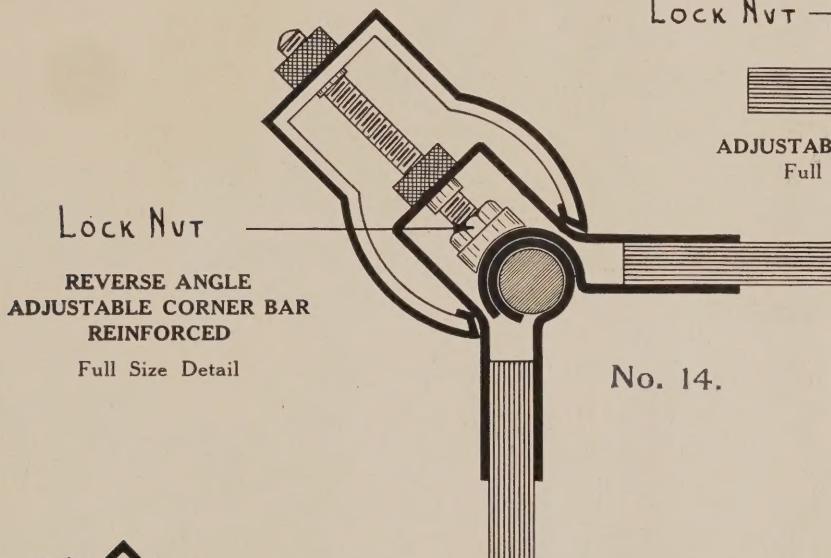
The adjustments are all on the inside of the window. No chance of their being tampered with from the outside. The outer surface just large enough to hold the glass firmly—perfectly smooth and most attractive.

You can be sure of quick delivery when you specify Thorne Adjustable. That's because the sale of this patented bar is in the hands of the plate and window glass jobbers throughout the United States—there is a Thorne System jobber in most every leading city of the United States. And the Adjustable Corner Bar stock of every one of these jobbers is complete and fits your requirements, so long as he has a single length in stock.

Thorne Adjustable costs no more than set angle corner bars but your customer completes his store front job much quicker—no chance for troublesome waiting and what's more, when each job is finished there are no "come backs".

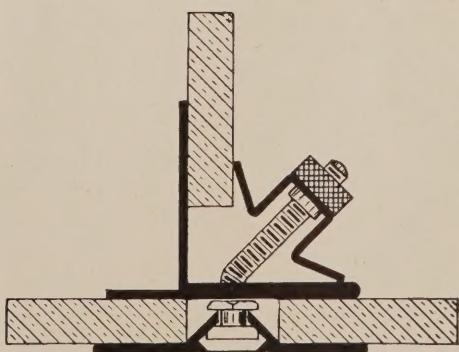
For large plate glass where there is an extra strong wind exposure the Adjustable Reinforced Corner Bar should be used.

Reinforced Corner Bars should always be used where reverse angles are required.



REINFORCED
Full Size Detail

No. 12.



THREE-WAY CORNER BAR MADE TO ALL ANGLES

Full Size Detail

THORNE HOLD-FAST

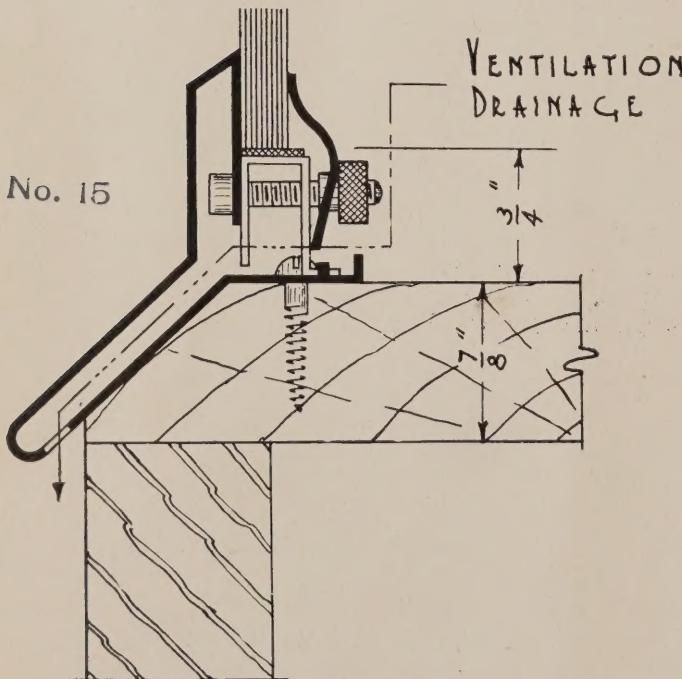
—THORNE
PATENTED STORE FRONT
SYSTEM

METAL BAR CO

THE THORNE HOLD-FAST HEAVY DRIP SILL



Thorne Hold-Fast
Troy, N.Y.
Patented
Aug. 24, '09



THORNE HEAVY DRIP SILL—Full Size Detail

[PAGE 8]

THE ECONOMICAL

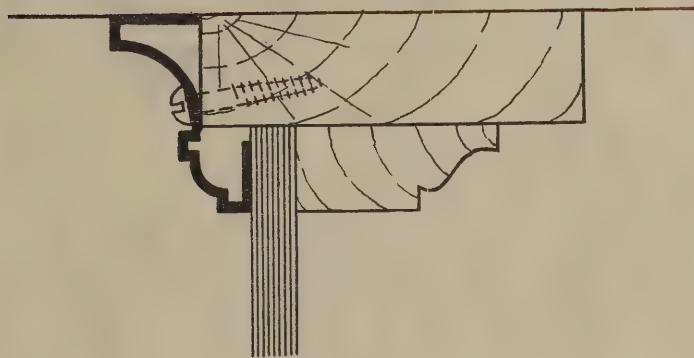
The Thorne Heavy Drip Sill is the only extra heavy natural Drip Sill on the market.

This patented Sill is equally suitable as a covering for marble, wood or metal and avoids the extra cost of a copper moulding.

It not only prevents the rotting away of the wood rail, because of carrying all drainage off into the street, it also provides a perfect ventilation for the show window.

The Thorne Heavy Drip Sill is exceedingly strong, is easy to install and is suitable for all classes of work.

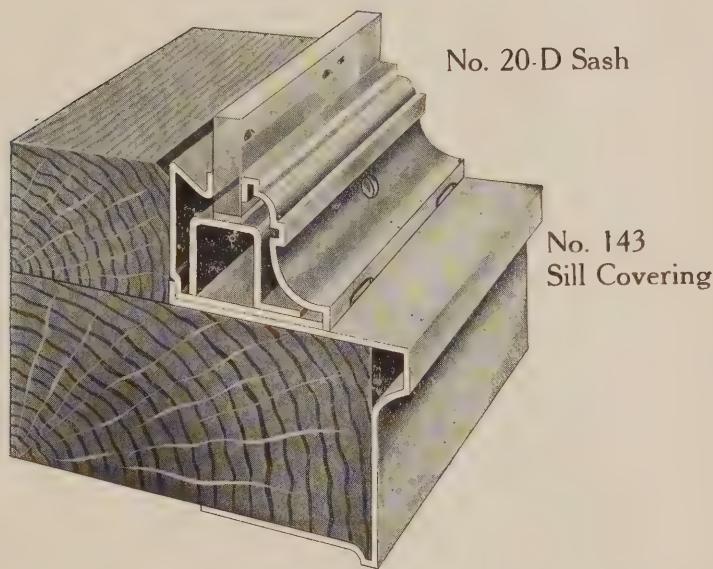
THOMAS HOLDFAST
THE DRIVE
SYSTEM
ALFRED MARSHALL



№. 226. JAMB. MOULD.

This moulding can be used for sides and heads in connection with the No. 20-B Sash or the No. 20-D Sash when it is necessary to cut the cost and yet retain the appearance of a complete metal setting.

THORNE OUTSIDE SETTING



We have found that under certain conditions there is a demand for an OUTSIDE SETTING, hence we have decided to place on the market our No. 20-D Sash as illustrated by the half tone cut given above and the full sized detail shown on the following page.

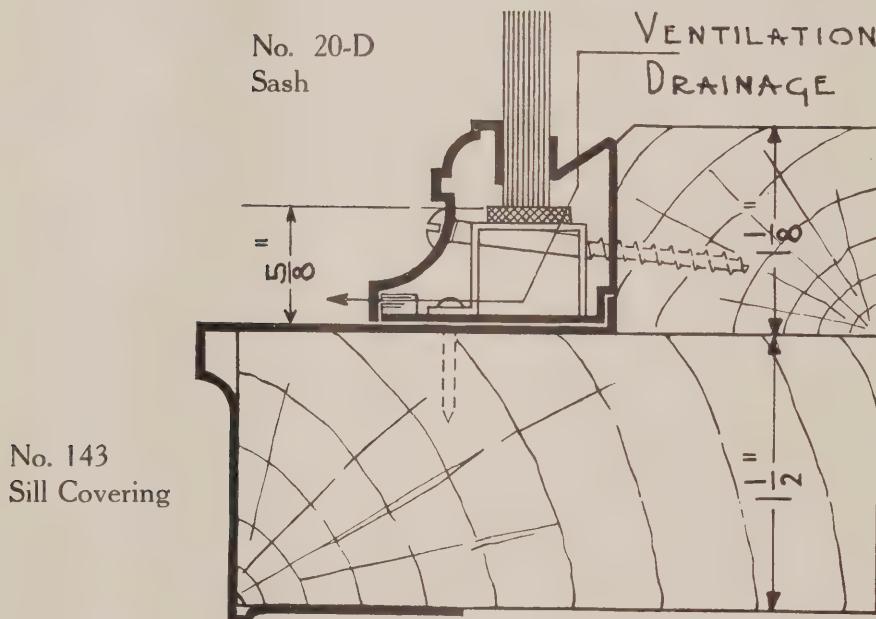
The No. 20-D Sash is made with the same artistic face moulding used for our regular No. 20-B Sash (inside setting) so that these two styles of construction can be used in conjunction with each other for first and second story work.

THORNE HOLD-FAST

THORNE
PATENTED STORE FRONT
SYSTEM

METAL BAR CO

THORNE OUTSIDE SETTING



This sash can be used for the setting of all kinds of glass in the construction of a store front. It provides the necessary drainage and ventilation as shown in the full size detail given above.

This sash is made of the same weight copper as used in our regular inside setting and brings the glass line on a level with the floor of the show window, thus conforming with certain building lines that are much desired by leading architects.

The use of this sash allows the glass to be set from the OUTSIDE and it can be used in connection with any form of building construction, whether wood, stone, marble, brick or structural iron.

THORNE ADJUSTABLE SASH, No. 20-D

The innovation in sash construction is the Thorne Adjustable — it is the only one that does away with all bolts and fastening protrusions on both the inside and outside of the window,—that permits the setting of the glass from the outside — that includes the merit features of the Thorne inside setting. This adjustable result is accomplished by means of an adjusting wheel on the inside of the sill. This adjustable wheel does not draw the back stop to the glass — it does draw the outer moulding up to the glass.

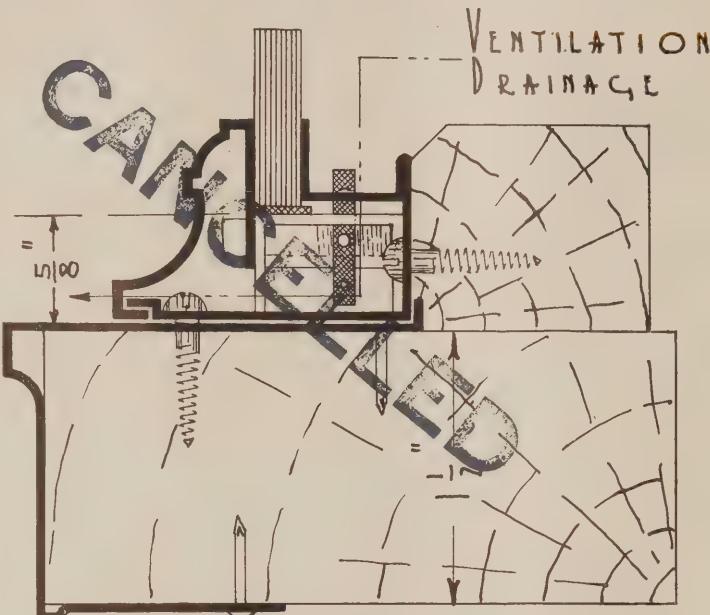
Before tightening this adjustment there is plenty of room to set the glass from the outside — a feature greatly appreciated by contractors and architects in those instances where there is but limited space between supporting posts in the window and the window glass itself.

When the glass is set in place, these little wheel adjustments, by drawing the moulding up to the glass, easily fasten it in place securely and permanently. When drawn up, each adjustment is securely locked so that it cannot become unfastened — the lock cap does it. The inside stop being at almost right angle with the glass means glass reinforcement over the entire surface of the stop.

The same weight of copper is used in this 20-D sill that we use in 20-B — in fact, the copper is drawn on the same form, has the same strength, and can be used in conjunction with 20-B if desired.

When the 20-D window is complete, the glass line is on a level with the floor of the show window, thus conforming with certain building lines that are very much desired by leading architects.

The store front result is an inside setting — no nuts or bolts on the outside of the store front — none protruding inside — yet a long lived sill easily installed and a testimonial that secures additional business.



20-D ADJUSTABLE SASH AND No. 143 SILL COVERING

No. 20-B HOLD-FAST
SASH

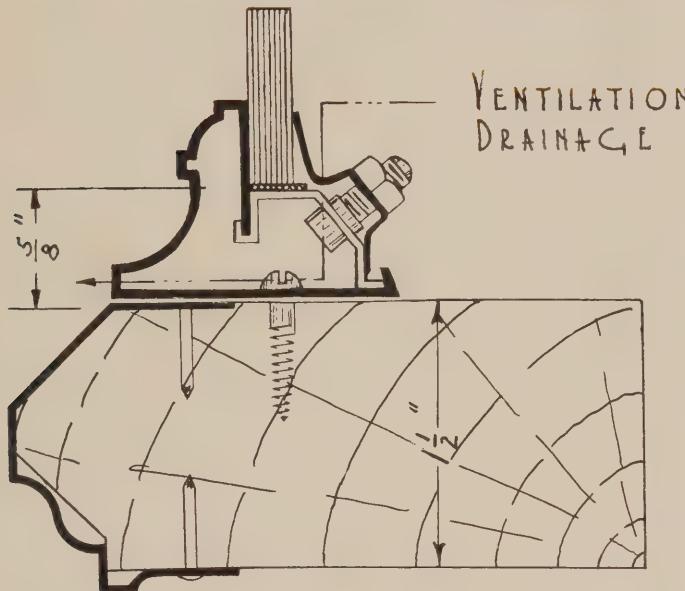


and
No. 120 SILL
COVERING

The No. 20-B sash is a most desirable setting for all forms of glass. The outer piece of No. 16 B. & S. gauge copper, brass, or bronze is perfectly smooth with no bolt or screw holes to mar its outside beauty — because it is THORNE inside construction.

Drainage and ventilation holes are all punched into the metal so that the bar is complete and ready to install when shipped. Before setting the glass, this entire sash with the exception of the stop, is screwed down solid to the sill from the inside of the sash and becomes a part of the building.

When the Glass Guard bolts are tightened the sash fits the glass perfectly and holds the front solid, secure and permanent.

VENTILATION
DRAINAGE

**THORNE No. 20-B SASH
and
No. 120 SILL COVERING**

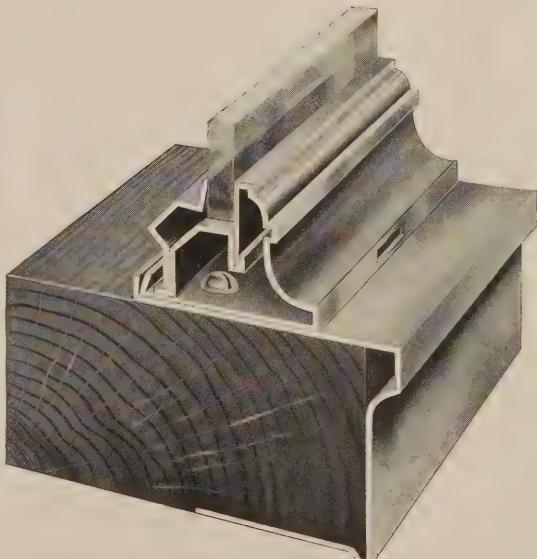
Full Size Detail

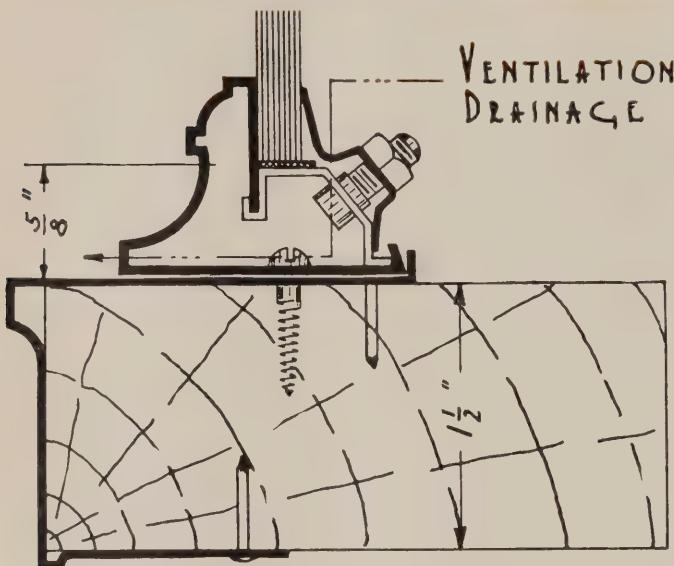
Offered in Copper, Bronze
and Brass — any
finish desired

**No. 20-B SASH and
No. 143 SILL COVERING**

No. 143 Sill Covering is the same gauge as No. 120 and like all Thorne materials is made in Copper, Bronze or Brass and in the finish desired.

This illustration distinctly shows the manner of fastening No. 20-B Sash securely in place with screws on the inside of the sash.



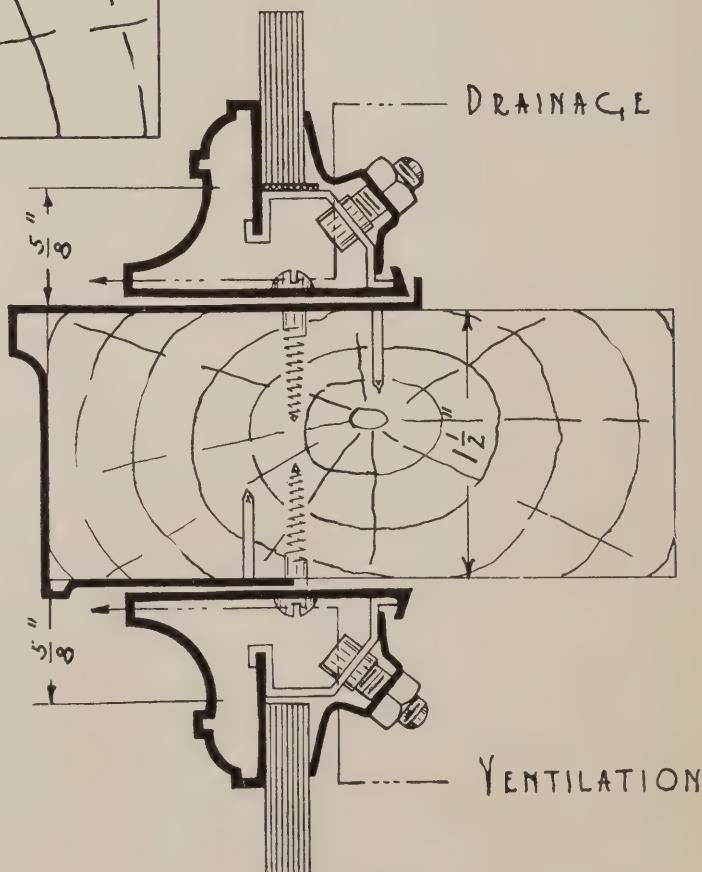


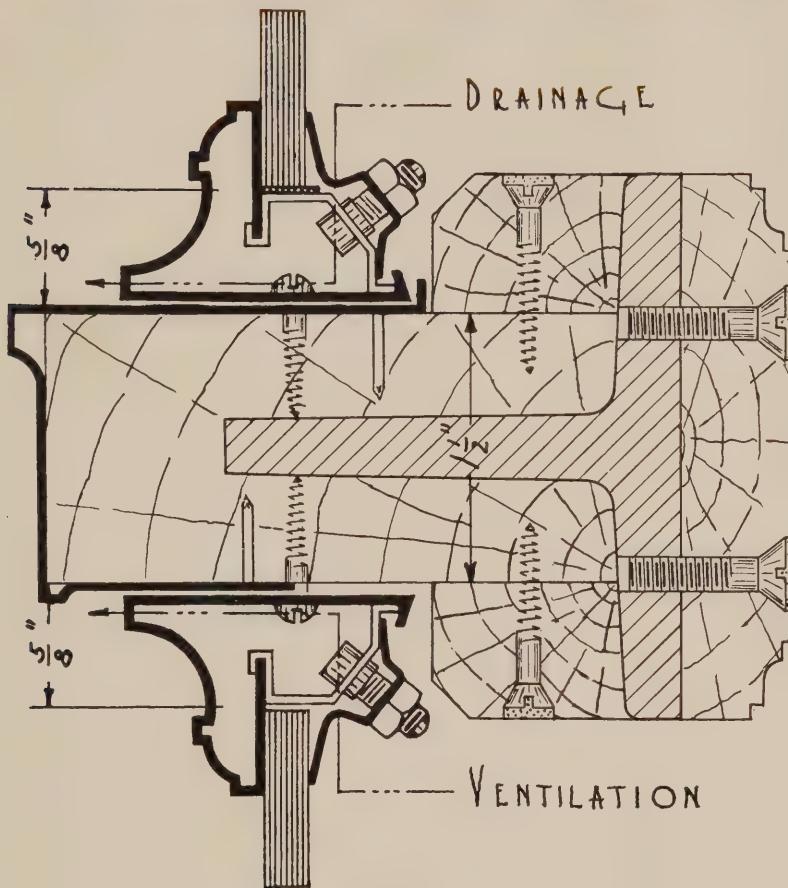
No. 24 TRANSOM BAR
COMPLETE

Full Size Detail

A special reinforcement should be used as shown on the following page when length exceeds 14 feet.

This bar is furnished complete with wood core or without as may be desired.





TRANSOM BAR No. 420

Half Size Detail

This Transom Bar can be varied in width from $2\frac{1}{2}$ to 4 inches.

The face of the lower moulding is cut off when reduction is desired.

This Bar is furnished with or without wood core, according to your specifications.

TRANSOM BAR

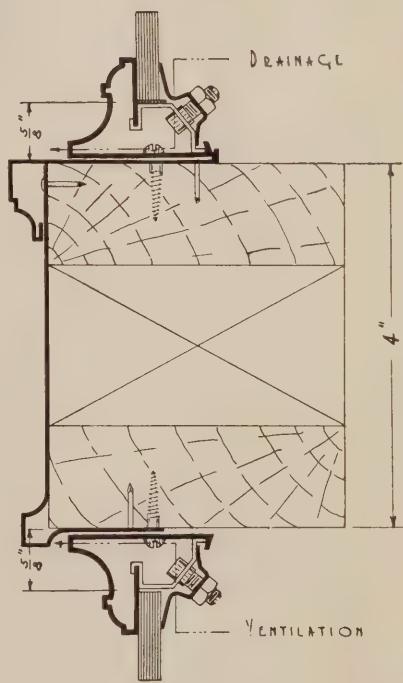
No. 24

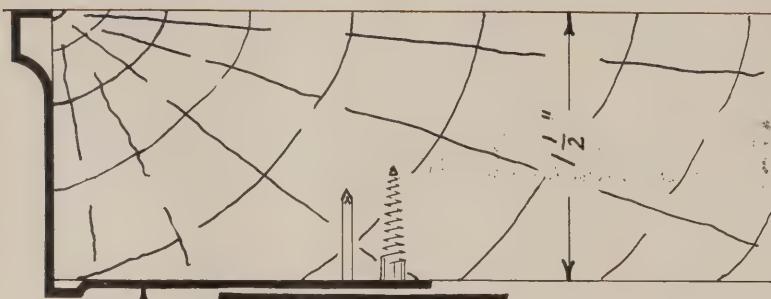
Showing method
of reinforcing.

This is the reinforcement that should be used on lengths over 14 feet.

This construction will be furnished complete with the reinforcement if specified.

Full Size Detail

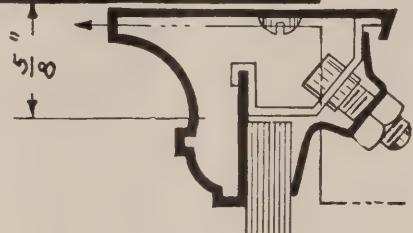




No. 142 Head and Side Jamb Covering

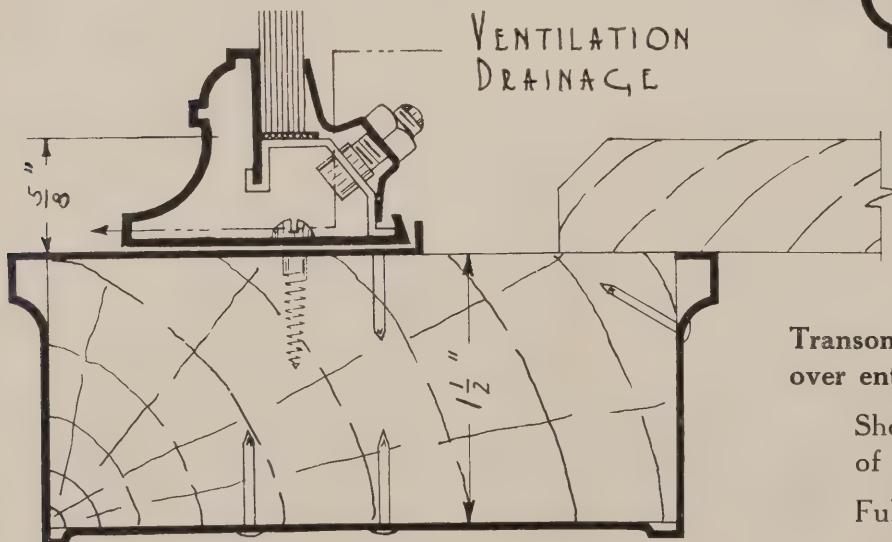
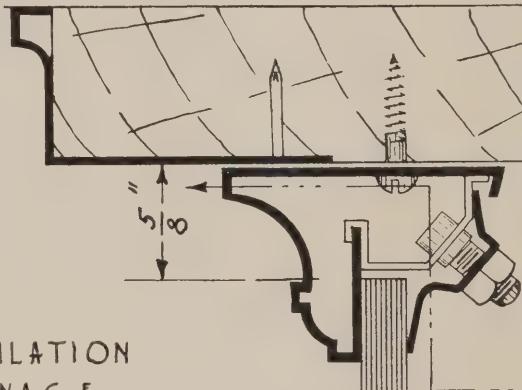
Full Size Detail of Head and Side Jamb Construction using Moulding No. 142 and No. 20-B Sash

No. 20-D Sash or 90° Angle Bar can be used instead of 20-B Sash if desired.



Moulding No. 147

Full Size Detail of Head and Side Jamb Construction using Moulding No. 147 and 20-B Sash



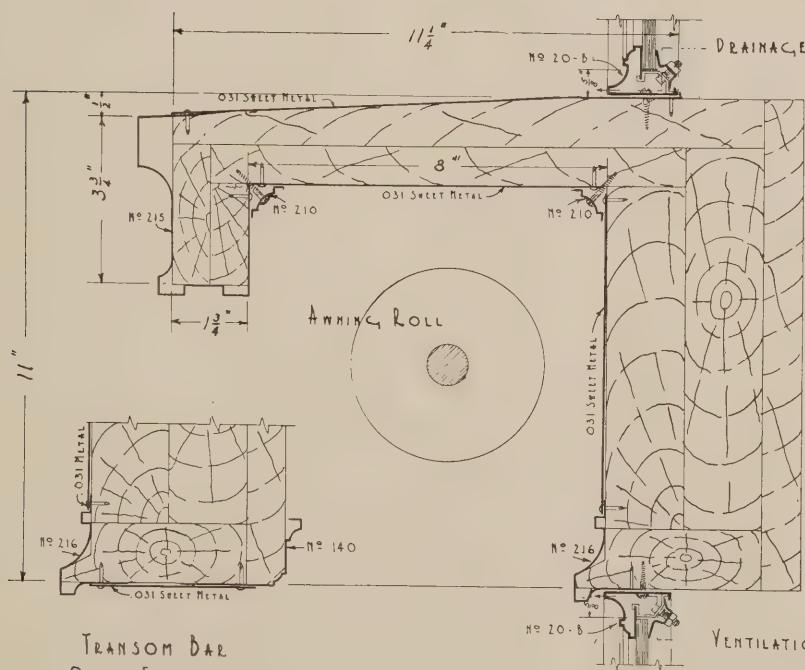
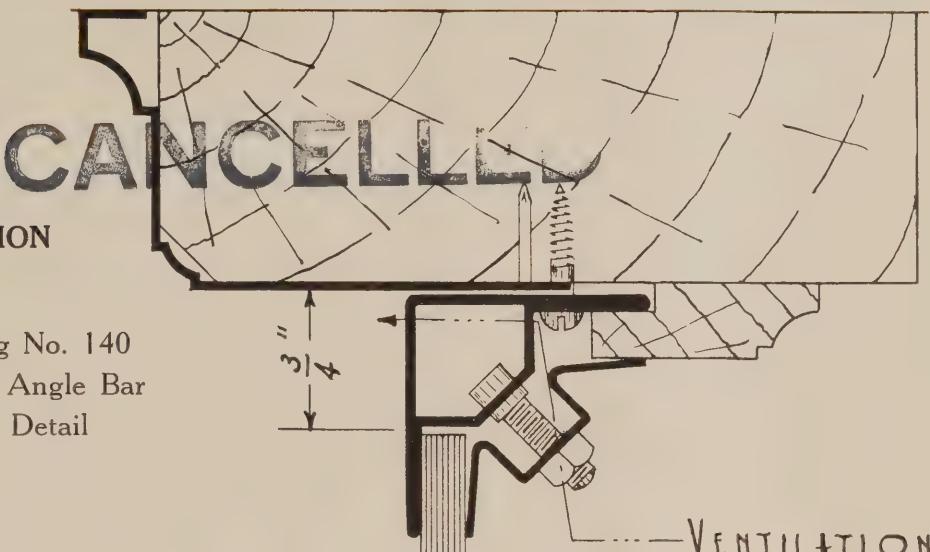
Transom Bar No. 24 over entrance

Showing method of finishing

Full Size Detail

**HEAD and
SIDE JAMB
CONSTRUCTION**

Moulding No. 140
and 90° Angle Bar
Full Size Detail

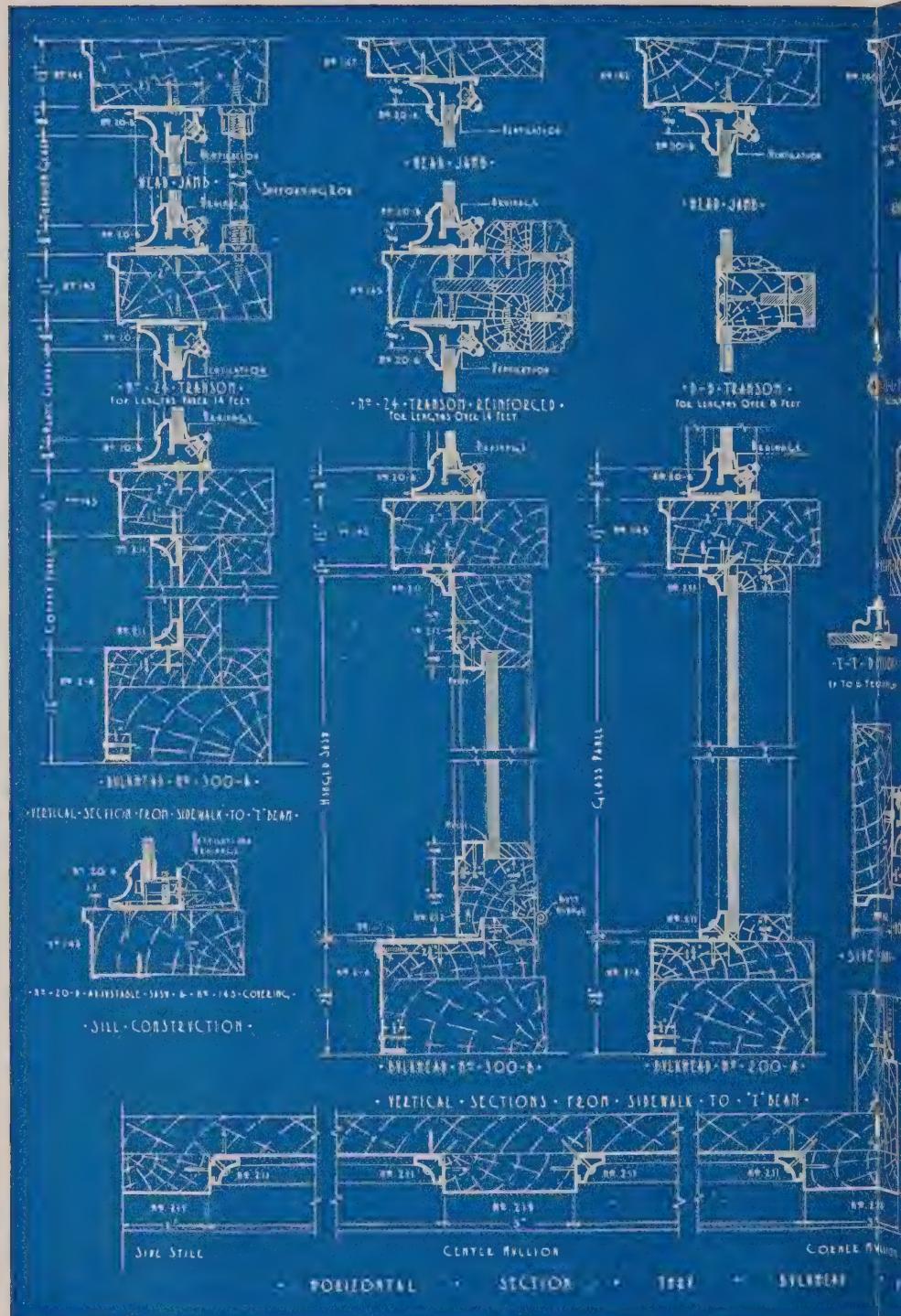


**Awning
Transom Bar No. 480**

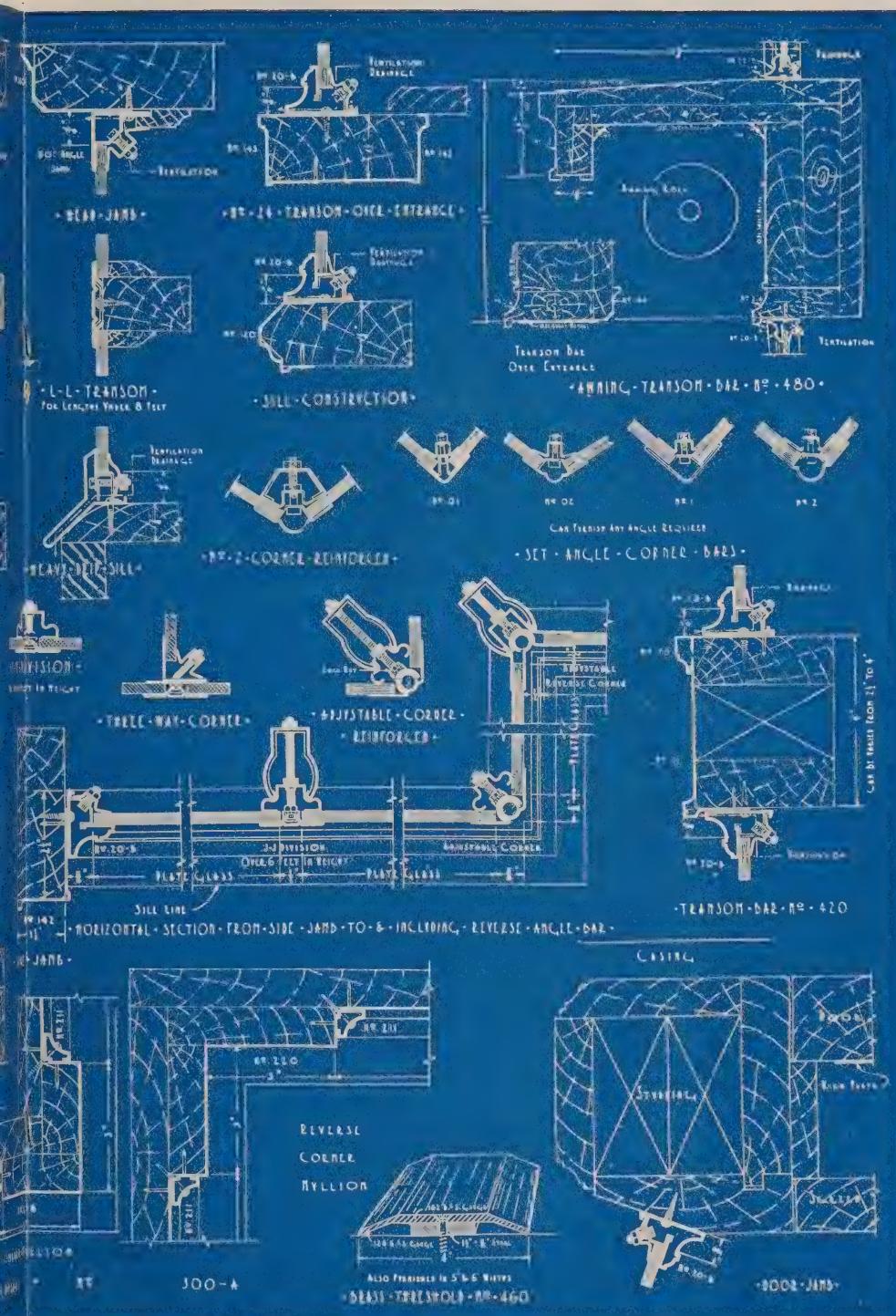
$\frac{1}{4}$ Size Detail

The principle employed to protect the awning when rolled up is apparent—the awning roller being well protected from wind and weather. We furnish metal only for Transom Bar No. 480.

THORNE HOLD = FAST



COPPER STORE FRONTS



THORNE HOLD-FAST

—THORNE—
PATENTED STORE FRONT
SYSTEM

METAL BAR CO



THE THORNE HOLD-FAST METAL BAR CO.
TROY, N.Y., U.S.A.

THORNE CONSTRUCTION — IN A NUT SHELL

For the convenience of Architects, Builders and Jobbers we have developed a working model device which you can hang on your wall — becomes a decoration for your ready reference — takes the place of the old cumbersome model. Send for one — no charge, if you need it. On the reverse side of each wall model are complete working details.

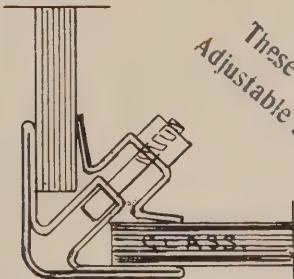
These bars replaced by No. 0
Adjustable same size and price.

THORNE HOLD-FAST

-THORNE
PATENTED STORE FRONT
SYSTEM

METAL BAR CO

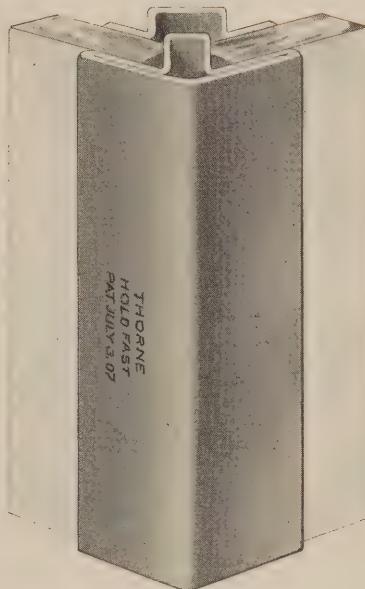
SET ANGLE CORNER BARS



CORNER BAR, Style No. 01

Full Size Detail

These bars replaced by No. 0
Adjustable same size and price.



MOULDED CORNER BAR

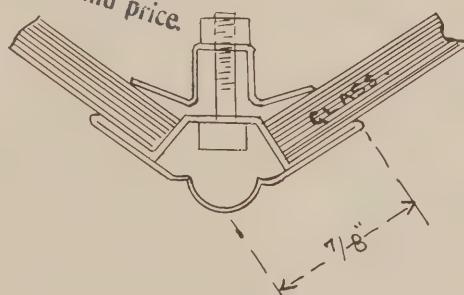
Style No. 02

3/4-inch Face

These bars replaced by No. 0
Adjustable same size and price.

CORNER BAR, Style No. 01
"ALL GLASS" EFFECT

3/4-inch Face



CORNER BAR, Style No. 02

Full Size Detail

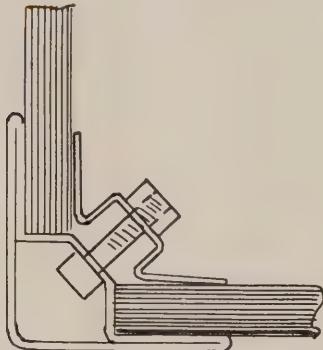
These bars replaced by No. 0
Adjustable same size and price.

THORNE HOLD-FAST

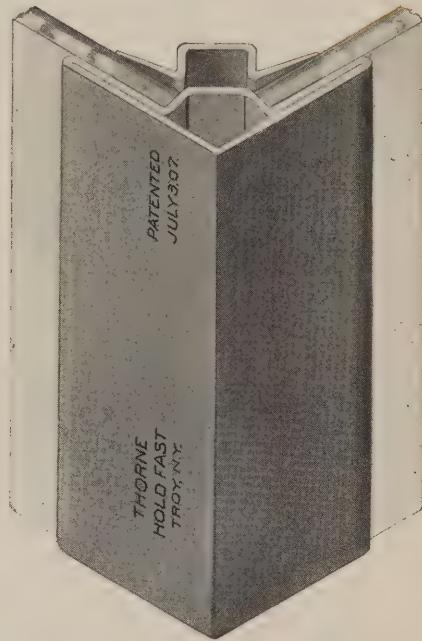
-THORNE
PATENTED SIXTH FLOOR
SYSTEM

METAL BAR CO

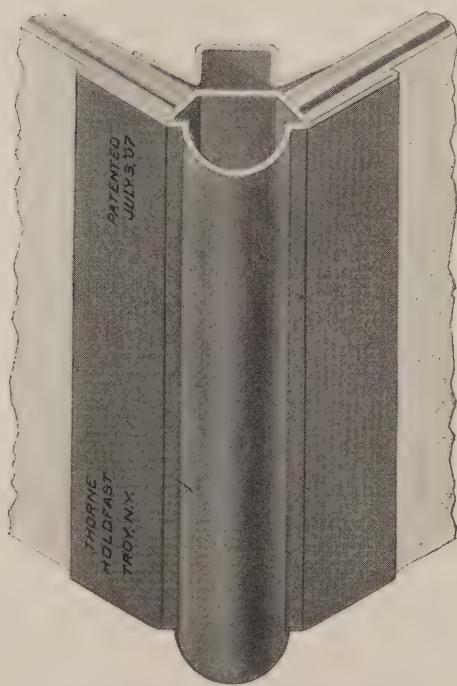
SET ANGLE CORNER BARS



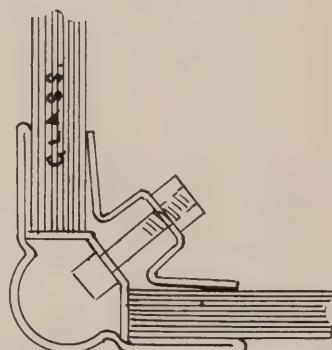
CORNER BAR, Style No. 1
Full Size Detail



PLAIN CORNER BAR
Style No. 1

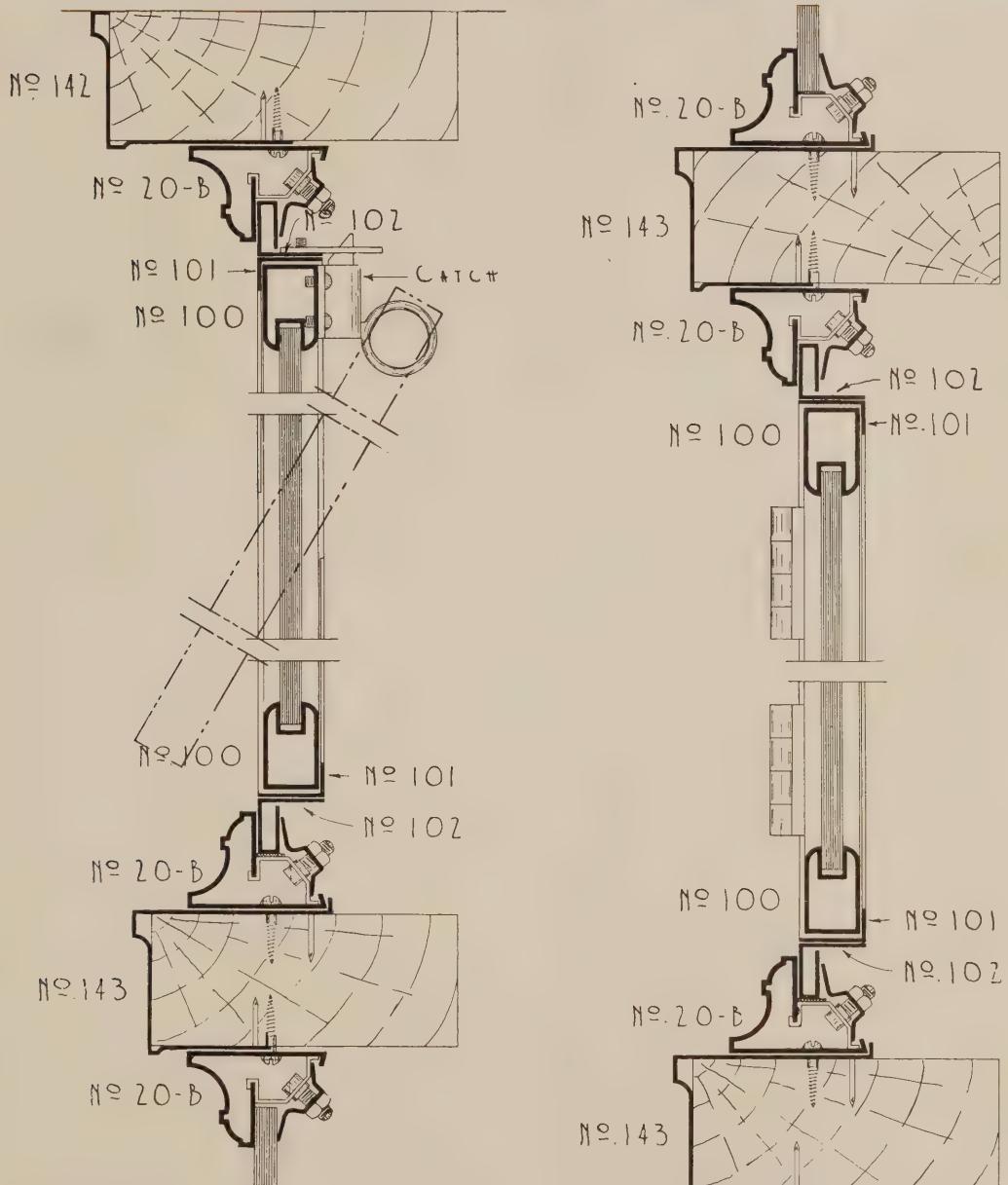


MOULDED CORNER BAR
Style No. 2



CORNER BAR, Style No. 2
Full Size Detail

PIVOTED AND HINGED THORNE FRAMES



VERTICAL SECTION PIVOTED VENTILATOR
Scale $\frac{1}{2}$ Full Size

VERTICAL SECTION HINGED DOOR
Scale $\frac{1}{2}$ Full Size

THORNE HOLD-FAST

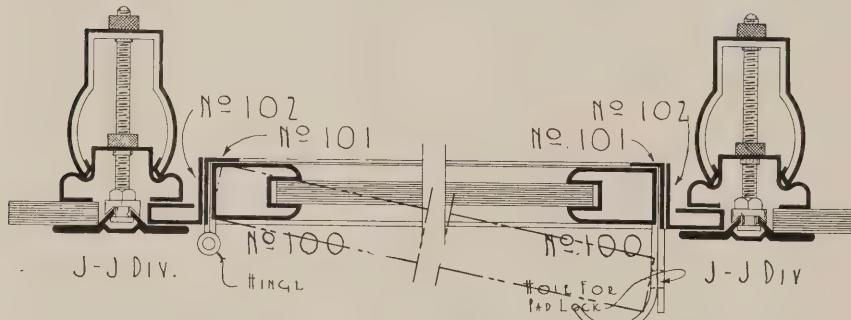
—THORNE
PATENTED STORE FRONT
SYSTEM

METAL BAR CO

PIVOTED AND HINGED THORNE HOLD-FAST FRAMES

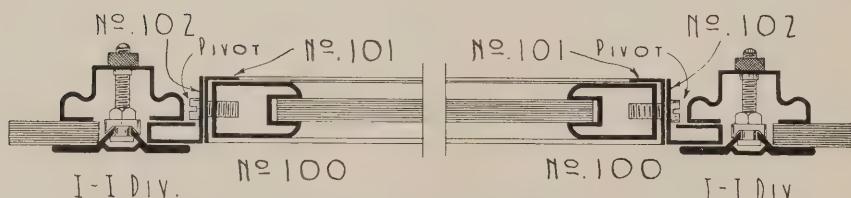


PIVOTED VENTILATORS AS USED ON SECOND FLOOR OF S. S. KRESGE
5 AND 10 CENT STORE



HORIZONTAL SECTION—HINGED DOOR

Scale $\frac{1}{2}$ Full Size



HORIZONTAL SECTION—PIVOTED VENTILATOR

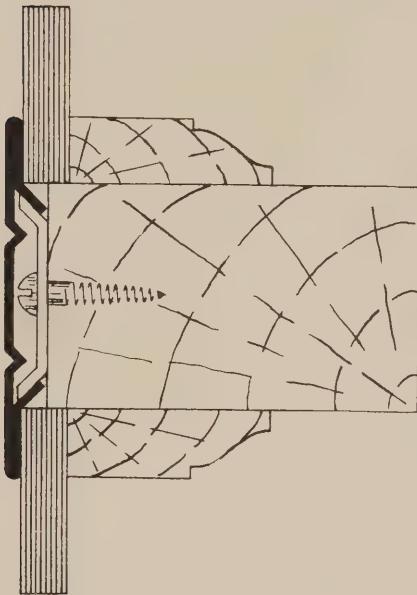
Scale $\frac{1}{2}$ Full Size

THORNE HOLD-FAST

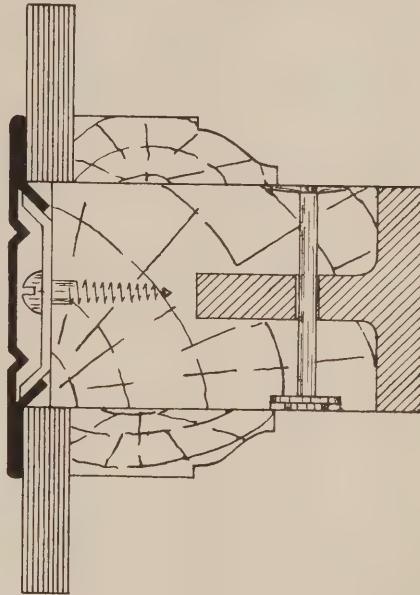
-THORNE
PATENTED STORE FRONT
SYSTEM

METAL BAR CO

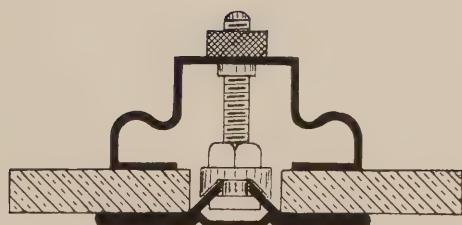
THORNE TRANSOM AND DIVISION BARS



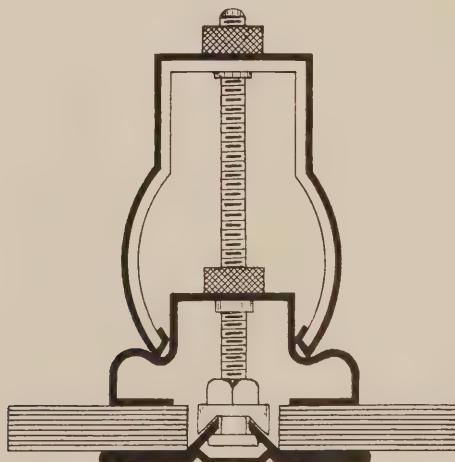
REGULAR TRANSOM BAR "LL"
As used for lengths up to 8 feet



REINFORCED TRANSOM BAR "DD"
As used for lengths over 8 feet



REGULAR DIVISION BAR "II"
As used for lengths up to 6 feet



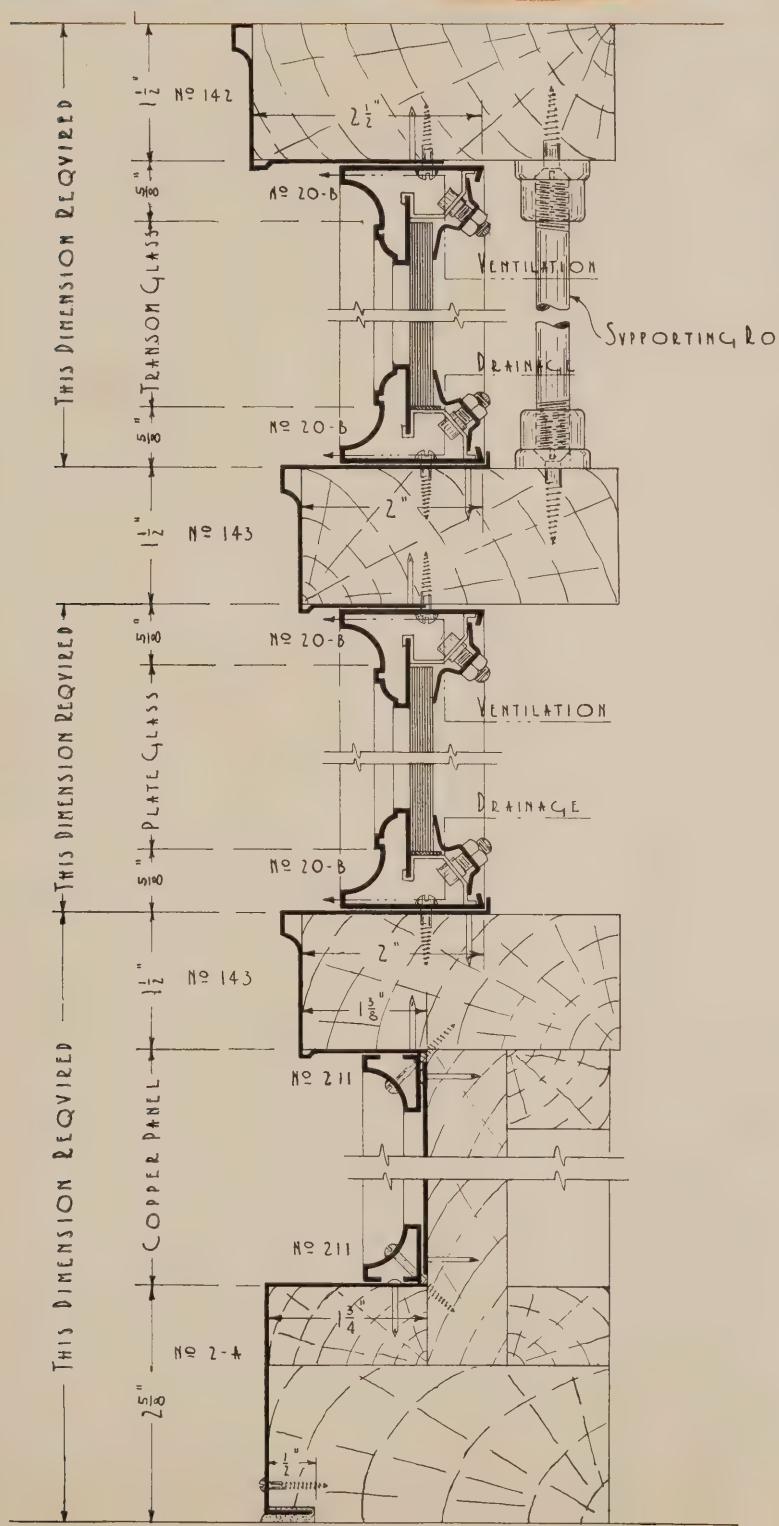
REINFORCED DIVISION BAR "JJ"
As used for lengths over 6 feet



MITSUKOSHI DEPARTMENT STORE, TOKIO, JAPAN

Most architects and builders realize the increasing demand for Thorne Patent Store Front Systems in the United States, but may not be aware that in many foreign countries the Thorne Store Front is receiving first attention by architects and builders who realize the wonderful value of efficient store fronts.

The builders of the Mitsukoshi Department Store, after studying the various store front systems of American and foreign manufacturers, installed Thorne Patent throughout.

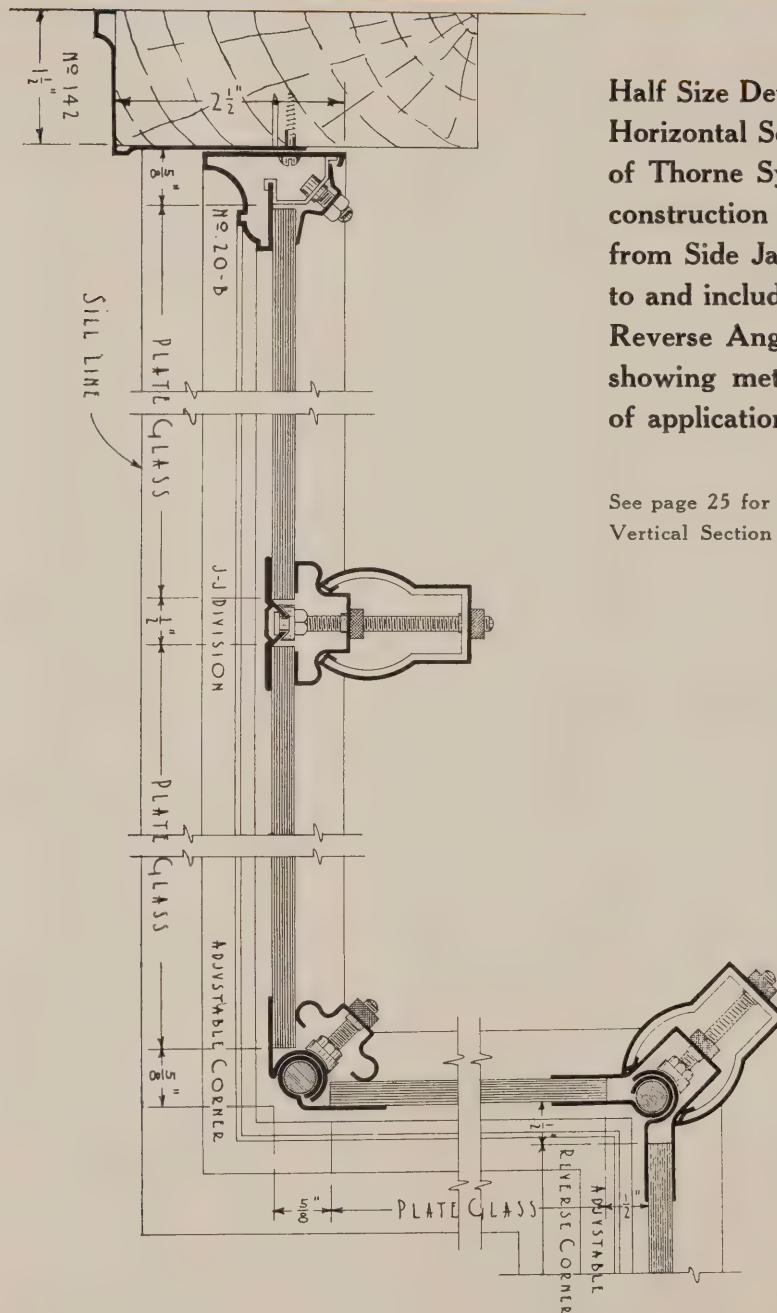


Half Size Detail
Vertical Section
of store front
from sidewalk
to "I" beam

showing method
of application of
Thorne System
Construction
and showing
method of
supporting
Transom Bar

See page 26 and 28
for Horizontal Section

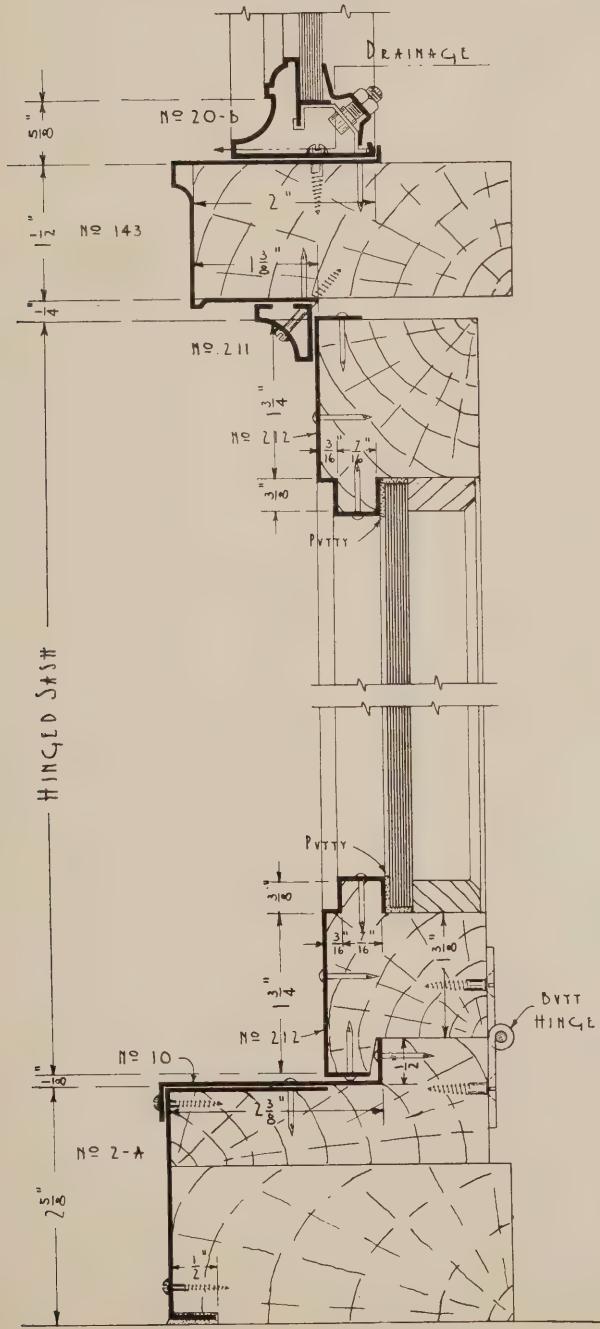
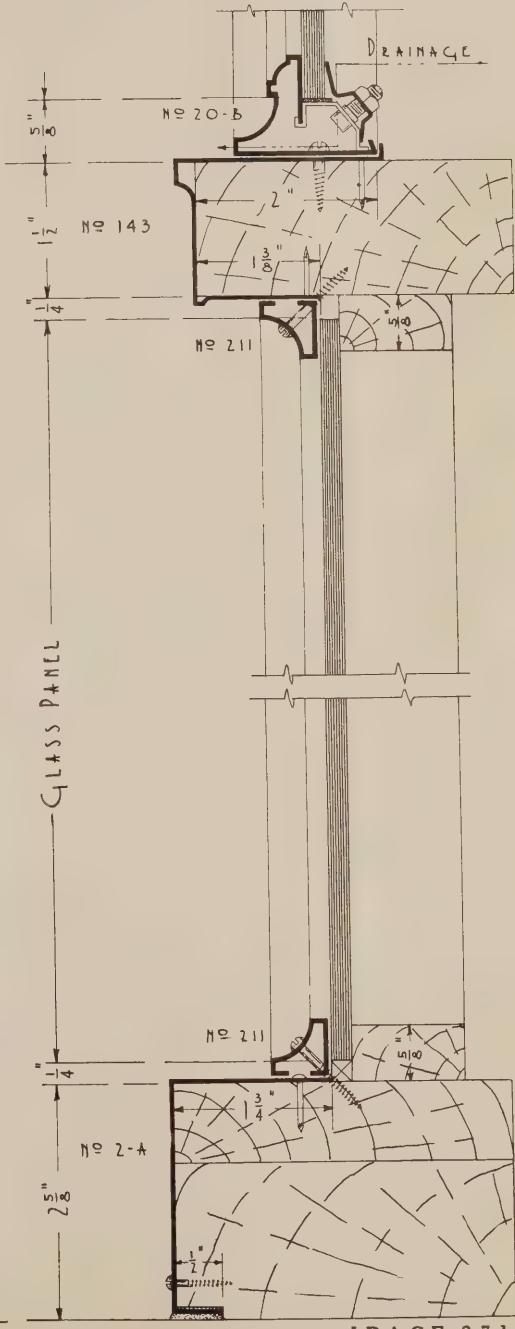
THORNE HOLD-FAST
THE THORNE
SYSTEM
METAL MFG. CO.



Half Size Detail of
Horizontal Section
of Thorne System
construction
from Side Jamb
to and including
Reverse Angle Bar
showing method
of application

See page 25 for
Vertical Section

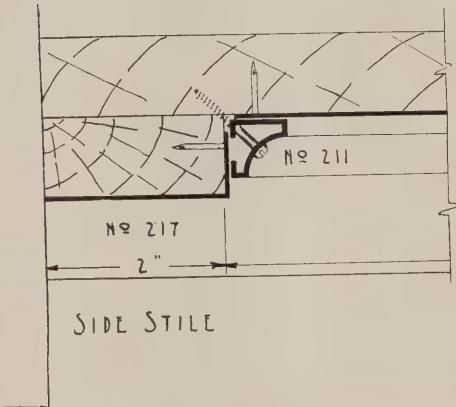
THORNE BULKHEAD CONSTRUCTION

Half Size Vertical Detail showing
Bulkhead Construction No. 300-BHalf Size Vertical Detail showing
Bulkhead Construction No. 200-A

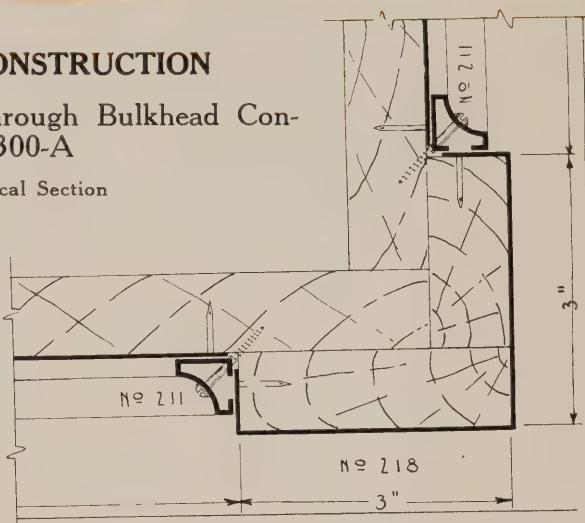
THORNE MULLION CONSTRUCTION

Half Size Horizontal Detail through Bulkhead Construction, No. 300-A

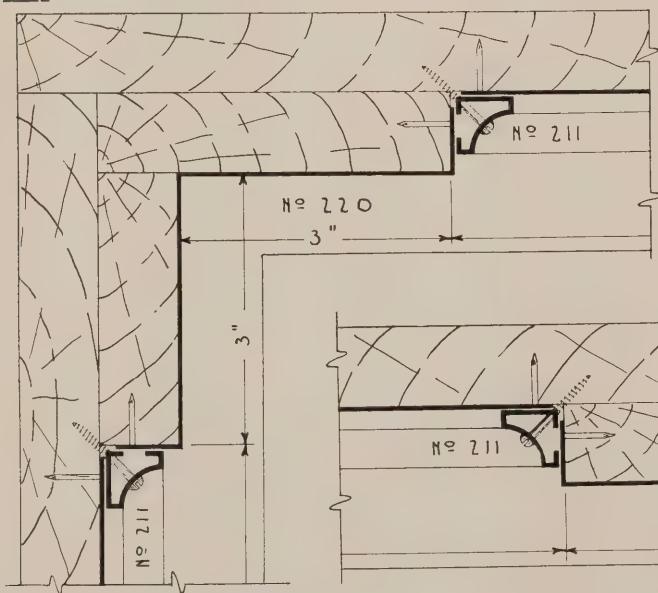
See page 25 for Vertical Section



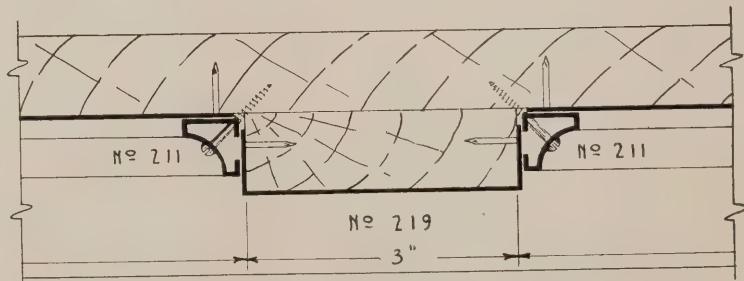
SIDE STILE



CORNER MULLION



REVERSE CORNER MULLION

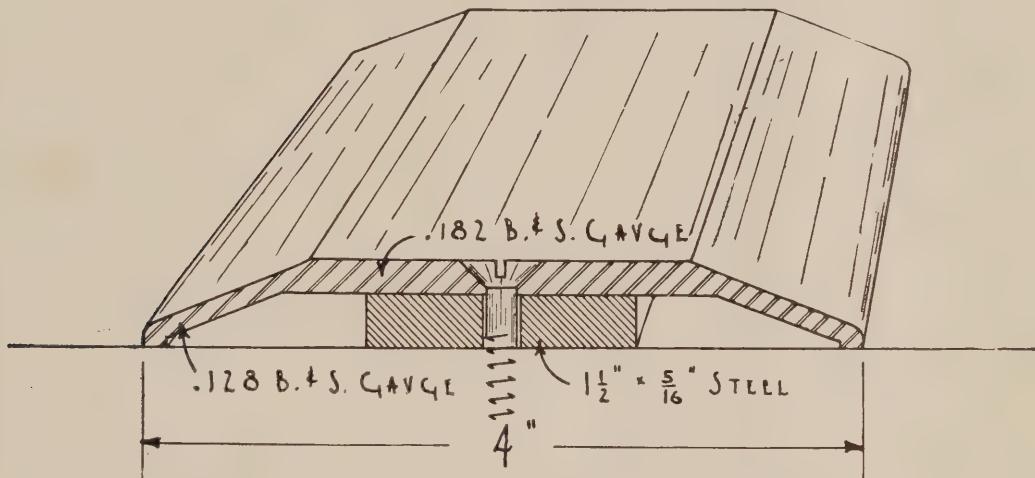


CENTER MULLION

BRASS THRESHOLD

Full Size Detail of Threshold No. 460

Brass Threshold with Steel Reinforcement



Also furnished in 5 and 6 inch widths. We furnish Brass Thresholds in any length desired. Thorne Thresholds will not warp and are long wearing.

KICK PLATES

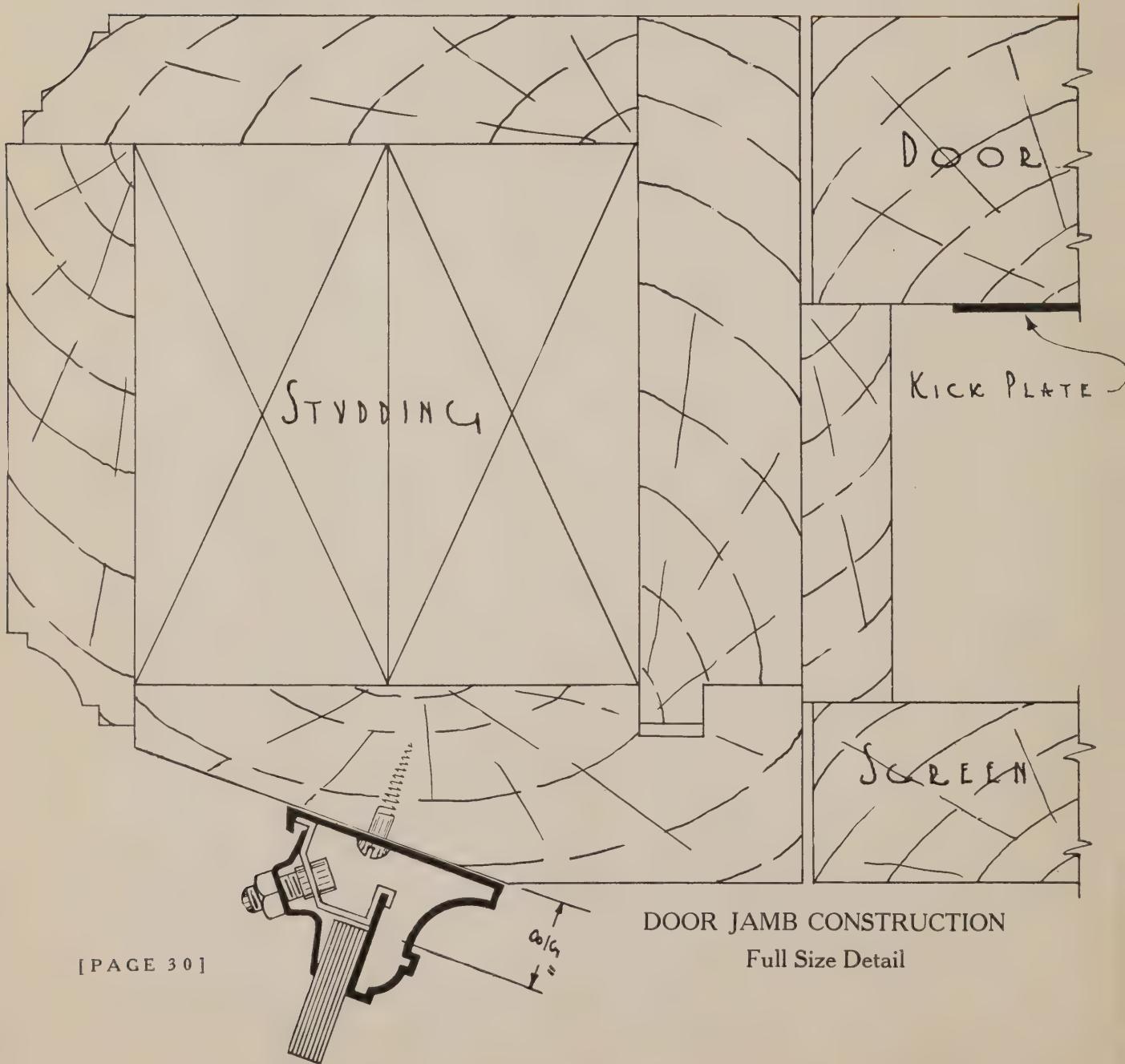


NO. 16 GAUGE

EXACT
THICKNESS

Kick Plates are furnished in No. 16 B. & S. Gauge Copper or Brass with square edges and drilled screw holes. Highly polished oxidized finishes on copper can also be furnished — made in any size desired.

CASING



DOOR JAMB CONSTRUCTION
Full Size Detail



PROPER WINDOW CONSTRUCTION AND VENTILATION IS THE ONLY CURE FOR FROSTY, STEAMY WINDOWS

Proper ventilation of your display windows is every bit as important as the display of merchandise in the windows. Without it the glass steams easily, remains frosted in cold weather, thus hiding the display of the merchandise for days at a time—the displays that every retailer depends upon so much to keep up his daily sales volume.

To begin with, the air temperature on both the inside and outside of your store front must be approximately the same. If your windows are not enclosed, you have store temperature inside—the weather man's temperature outside. Cold air will not hold the same amount of moisture as warm air. When the warm store air touches the cold glass of your window front, it turns cold so quickly that the moisture it cannot hold forms on the windows.

To avoid this, the rear of each window display should be enclosed. To prevent cellar dampness, the floor of every window display should be paper lined. But even though you take these precautions, the steaming frosting trouble will prevail unless the circulation of air through your window is every bit as perfect as the circulation system of your refrigerator at home.

To secure the perfect result means, therefore, a complete setting of sills, corner bars, side and head jambs — metal construction with perfect ventilation facilities, so that the air from out of doors circulates freely through your window, coming up through the under sill and going out through the side and head jambs. Wooden side and head jambs offer no ventilation and cannot of course accomplish the desired result.

We recommend that you emphasize this feature with your general trade so that they will be careful to install **metal** store fronts with proper ventilation—that they inspect carefully the perfect ventilation features of the Thorne Hold-East Store Front Construction.



OSGOOD-BRADLEY BUILDING, WORCESTER, MASS.

Walter S. Timmis, Architect and Engineer, New York City
Turner Construction Co., Builders, New York City

This industrial building which has just been completed in Worcester, Mass., is an unusual example of building architecture, combining reinforced concrete and a small quantity of brick and terra cotta. Thorne construction was used exclusively for these ground floor display windows. There is an efficient THORNE CONSTRUCTION for the store front of every size — An arrangement that is most effective for every class of business.

HENRY STOWELL & SON, PRINTERS, TROY, N.Y.

Memor 22.

THORNE
PATENTED STORE FRONT
SYSTEM